

HD PVR 2

Quick Install Guide

HD Video Recorder for Windows

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Included with HD PVR 2 model 1512:

- **HD PVR 2 recorder:** H.264 high definition video recorder, USB
- **HDMI cable**
- **Component Video gaming cable** to connect to your set top box
- **IR blaster cable** to control the channels on your set top box
- **Hauppauge A/V adapter for Component video**
- **USB 2.0 cable**
- **6v 1.66 amp Power Supply**
- **HD PVR 2 Installation CD**, with HD PVR 2 drivers for Windows and WinTV v7, Arcsort ShowBiz, StreamEez and Personal Logo inserter applications

Overview

The Hauppauge **HD PVR 2 model 1512** records video in HD from a cable or satellite set top box, PC or video game console. There are two video recording applications which come with HD PVR 2 model 1512. WinTV v7 is used to schedule TV recordings from a set top box. Arcsoft Showbiz was designed to record video from game consoles and has a convenient one-click upload to YouTube.

The software which comes with HD PVR 2 only runs on Windows PCs, but there are third party applications which run on the Mac. Please see our website for more information.

HD PVR 2 recordings are made onto a computer's hard drive in a compressed H.264 format. It records from HDMI or Component Video (also called YPrPb). You can also record S-Video or composite video using and optional A/V cable (you can purchase this on the Hauppauge Webstore). It will record at 1080p30, 720p or 480p at datarates from 1Mbit/sec up to 13.5Mbits/sec.

Note: if you are recording from a cable or satellite box or a PS3, you will use Component Video. Most set top boxes and the PS3 do not allow recording from the HDMI port.

Audio can be supplied to the HD PVR 2 from stereo audio or via the HDMI port. The recording format used by HD PVR 2 is H.264 with AAC audio. There are three types of HD PVR 2 record formats:

MP4: this is an H.264 format which is used by many video editors such as Sony Vegas.

TS and M2TS: these are native H.264 formats which can be recorded as a Blu-ray disc.

Installing the HD PVR 2

Step 1: Boot into Windows on your PC

HD PVR 2 works with laptops or desktop PCs with Windows 8, 7, Vista and Windows XP.

Step 2: Plug the power supply into HD PVR 2

After your PC has booted to Windows, plug the supplied Power Supply into the Power input on HD PVR 2. The power supply is 6VDC@ 1.66amps.

Note: you will not see video on your PC screen or on your TV set until you install the software from the HD PVR 2 Installation CD.

USB connection

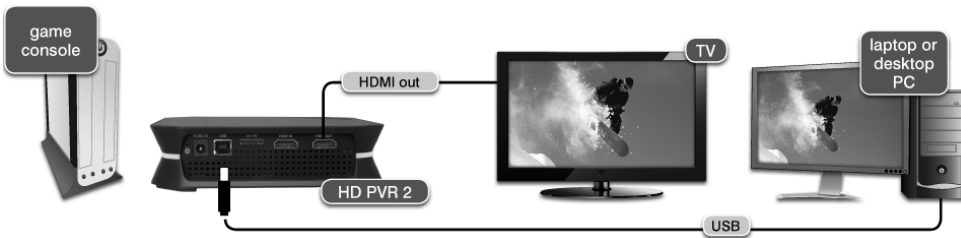
Plug one end (the square end) of the supplied **USB cable** into the HD PVR 2's USB cable connector. HD PVR 2 is compatible with USB 2.0 (high speed) only. Plug the other end into your PC.

Step 3: Connect the HD PVR 2 cables

3a. Connection to your TV set or monitor for "no delay pass through"

Connect the **HDMI output** from the HD PVR 2 to the **HDMI input** on your TV set.

Note: your HD PVR 2 needs to be powered on for Passthrough Video Output to operate. Also, ShowBiz needs to have set the Video in source correctly for passthrough to operate. If you are having passthrough problems, please see the Troubleshooting section.



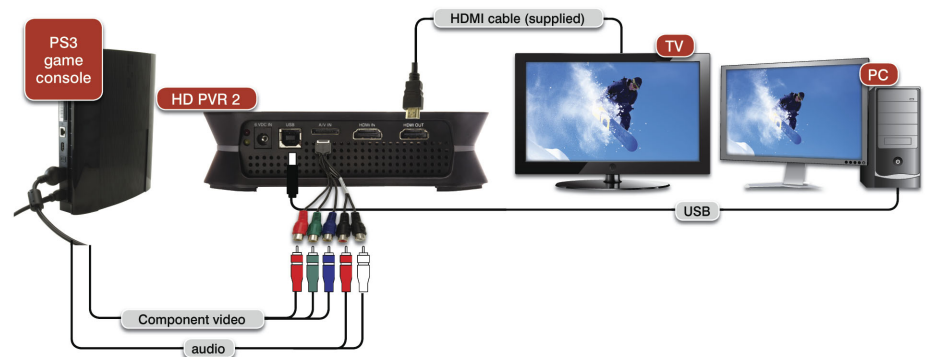
3b. Connect your set top box or PS3 to HD PVR 2 using Component Video

If you are using a cable or satellite set top box, or a PS3, you will use **Component video** to record. The **Component Video cable** (supplied) has **Green/Blue/Red and White/Red** connectors at the end. Plug these colored cables into the corresponding Green/Blue/Red and White/Red RCA connectors of the **Hauppauge A/V adapter for Component video**.

Plug the **Hauppauge A/V adapter for Component video** into the **AV in connector** on the back of the HD PVR 2.

Note: the A/V connector should be plugged in with the word PUSH facing DOWN.

If you are using a cable or satellite set top box, plug the other end of the **Component Video cable**



into the **YPrPb** or **Component video output** of your set top box.

If you are using a PS3, you will need a **PS3 Component Video cable** (not supplied). Plug the **PS3 Component Video cable** into the **AV Multi Out** of your PS3.

Note: If you are using a PS3, make sure your HDMI cable is not plugged in. If you had previously had an HDMI cable plugged in to your PS3, you will need to reset the PS3 video output. To do this, push the power button the front of the PS3 until the light goes Red. Then, PUSH and HOLD the Power button until you hear the second BEEP. The second beep means the video mode has been reset and you should now have video coming from the PS3.

3c. Connect your PC, Xbox 360 to HD PVR 2 using HDMI

If you are using an PC or Xbox 360, plug the **HDMI cable** (supplied) into the **HDMI out** of your PC's graphics card or your Xbox 360 and into the **HDMI in** on the HD PVR 2.

Note: to set up the video on a PC, see these instructions:
www.hauppauge.com/pcsetup

Note: on the Xbox, you might need to change the video mode. See these instructions:
www.hauppauge.com/xboxsetup

Step 4: Install the HD PVR 2 Windows driver and applications

For more information, please see the Hauppauge HD PVR 2 support page:
http://www.hauppauge.com/site/support/support_hdpvr2.html

Note: the HD PVR 2 needs to be powered up in this step and plugged into your PC while the Windows drivers are installed.

If a 'Found New Hardware' wizard appears, **please cancel it**.

Insert the **HD PVR 2 Installation CD-ROM** in your PC's CD-ROM drive.

Note: if the CD does not autorun, navigate to the CD and run the 'Setup.exe' file.

The **Hauppauge Installation CD** window will appear on the screen. Choose a language.

Step 1: Check your cables

Click **Check cable connections**

Step 2: Install the HD PVR 2 driver

Click **Install HD PVR 2 Drivers**. A blue screen will open and begin installing drivers for your HD PVR 2. Once the drivers have installed, click on the **Click to exit** bar.

Step 3: Install the HD PVR 2 applications

Click **Install HD PVR 2 software**

Click **Next**. The HD PVR 2 applications will be installed. The **WinTV v7** application includes a TV scheduler which allows you to record TV programs from a cable or satellite set top box. The **Record application** allows you to start and stop recordings by using the Record button on HD PVR 2. The **ArcSoft ShowBiz application** is for recording game play and uploading the game



recordings to YouTube. **Personal Logo inserter** loads an image which will be 'burnt' into your recording. Once complete, **you will be asked to restart**. Please do so.

Step 5a: Using WinTV v7 to record TV programs from your set top box

Please go to our Internet website for instructions on the setup and use of the WinTV v7 application.

www.hauppauge.com/wintvsetup

Step 5b: Using ArcSoft ShowBiz to record your gameplay

After restarting your PC, you will see a **Showbiz icon** on your Windows desktop. Click this icon.

With ShowBiz you can record video from your game console, upload the recording to YouTube, trim the ends and burn the recording onto a DVD disc. The program is divided into three main functions: **Capture**, **Edit** and **Produce**.

To record your video game play, click on the **Capture button**.



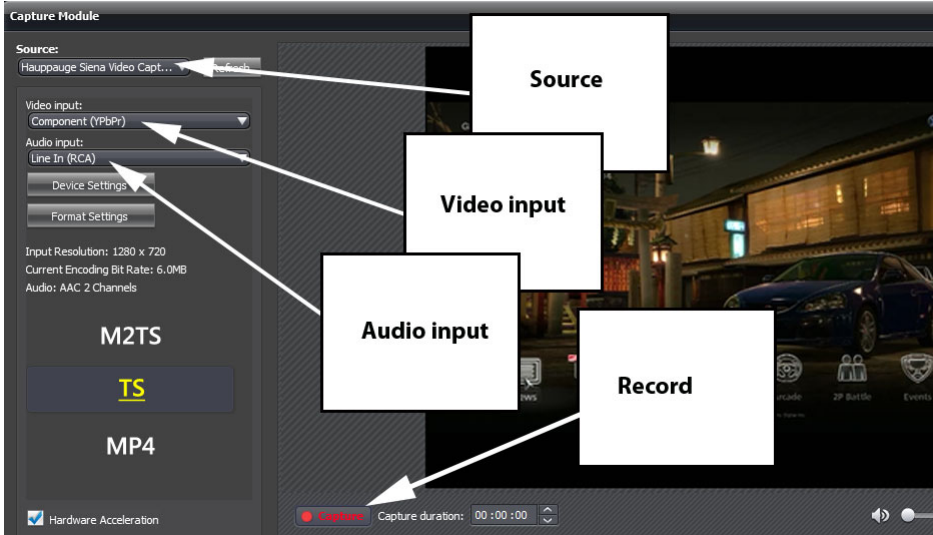
Capture setup

In **Source**, make sure **Hauppauge Siena Video Capture** is selected.

In the **Video Input**: select **HDMI** if you are using an Xbox 360 or **Component (YPrPb)** if you are using a PS3.

In the **Audio Input**: select **HDMI** when using an Xbox and **Line in (RCA)** if you are using a PS3.

Note: During recording and preview, there will be a 2 - 3 second delay between your game play and what you see in the preview window. This is normal.



You should now see live video from your video source in the preview window, and also hear audio. You can adjust the recoding bitrate by clicking on **Format Settings => Video Encoder**. You can set the bitrate from 1 Mbit/sec to 12 Mbits/sec. The higher the bitrate, the more disk space is used but the higher the video quality. When recording game play, we recommend 9 Mbits/sec or higher. The format created by the HD PVR 2 is a H.264 using AAC audio in an AVCHD (TS), M2TS or MP4 file format. If you would like to edit your videos with Sony Vegas, use the MP4 format.

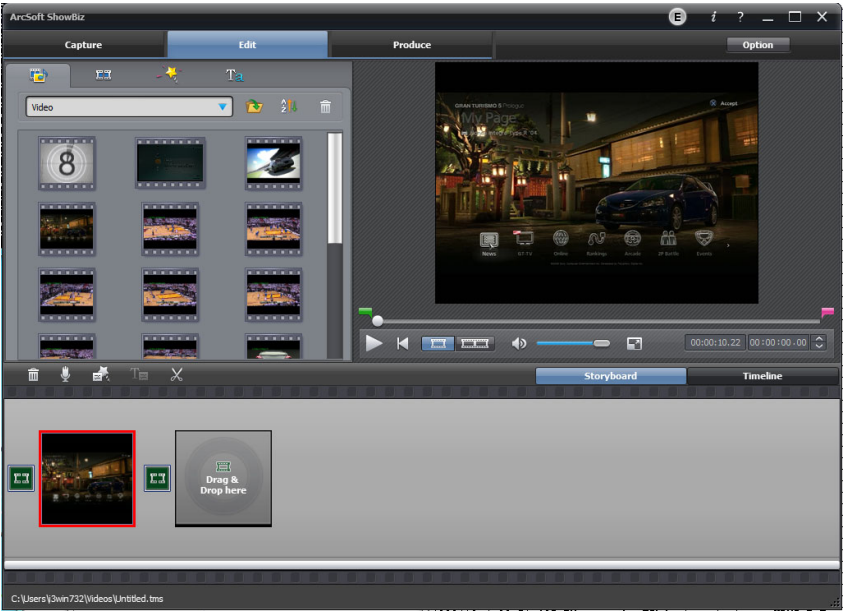
Start recording by clicking on the **Capture button**. Recordings are stored in the **MyVideos folder**. The default name of the video will be the date and time (i.e. 2008_3_20_09_08_32.TS).

During recording, the Capture button will turn green and the button will change to a **Stop button**. You can make a recording of a specified time duration by entering a value in the **Capture duration box**. Click the **Record button** to start recording.

Video passthrough

Video passthrough starts once you have chosen the correct source in the Capture application. Until you do this, video passthrough is disabled.

Editing your video recordings



Click **Edit** to enter the video editor. Here, you can add videos together and trim your videos. Icons of your recordings will appear in the box on the upper left side of the Edit window. Double click it to add it to the timeline below. If you wish to edit a recording, first click on the clip in the timeline, then click the scissors above.

In the trim window, you can remove unwanted portions of the video by using **mark in** at the start of the portion to be removed and **mark out** at the end. Then click **OK**.

Using the Record button

The Record button is on top of HD PVR 2. When you push it, **Showbiz Capture** is run and HD PVR 2 starts to record video. It uses the video source last selected in the Capture module. The **Green LED light ring** will turn on when recording. When recording, you can stop recording by hitting the Record button again.

Produce

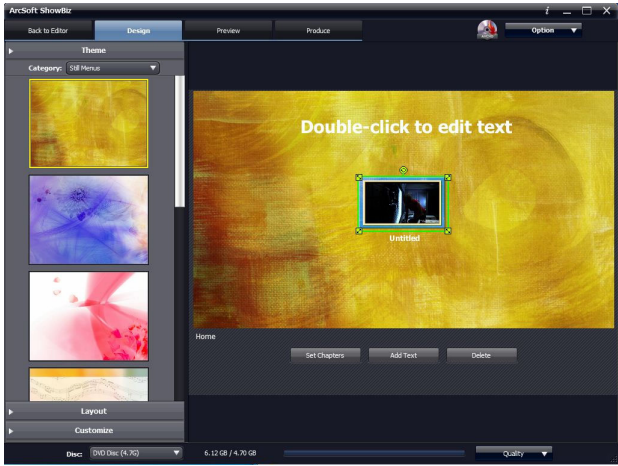
Once you have added all media and made the desired cuts, click on Produce. In Produce, you can upload to YouTube or burn Blu-ray compatible DVD discs.



Create file lets you convert the file to several available formats for playback on other devices such as a personal media player.

Upload to YouTube allows you to upload video to your YouTube account.

Create AVCHD creates a disc that can be played back on a Blu-ray player in HD. You can record about 2 hours of HD video on a standard DVD-RW or DVD-R disc. If you choose to Create AVCHD, you will be brought to the design screen.



This screen will allow you to create menus for your disc. Once you have created your video, press **Preview**.

Preview allows you to test the disc before burning. Produce allows you to burn the project to the disc.

Troubleshooting

What do the lights on front of HD PVR 2 mean?

Blue light: When HD PVR 2 is powered on and ready to start recording, the blue light is on. When the blue light is blinking, the HD PVR 2 is not 'seen' by your PC. Check the USB cable!

Yellow light blinks once when Capture runs: the HD PVR 2 is ready to start recording.

Yellow light on: this means video is present and HD PVR 2 detects video on the currently selected

video source. For example, if you are using ShowBiz and have selected HDMI and have a active HDMI source, then you will see a yellow light on the front of HD PVR 2.

- **Green LED ring:** in Showbiz, this indicates that HD PVR 2 is recording video. When using the WinTV v7 application, the green LED ring is lit during preview and recording.
- **Red light:** this means the video encoder inside HD PVR 2 cannot send data to your PC. There are a number of reasons this could happen. If your PC is running slowly and cannot get data from HD PVR 2 quickly enough, the red light might go on for a few seconds until the PC can accept data. If there is a problem with your a video input cable or the USB cable or the USB port on your PC, the red light might be illuminated. Check your video cable. Change to another USB port on your PC, then power down HD PVR 2, wait a few seconds and power up again. If you continue to see the Red light while recording and have checked your cabling, contact Hauppauge technical support.

Black screen in the ShowBiz Capture preview window:

Step 1: In the ShowBiz Capture module, make sure **Hauppauge Siena Video Capture** is listed under **Source**. If not, then please check your USB cables and make sure the blue light is on on the front of HD PVR 2. If you cannot see Hauppauge Siena listed, reinstall the Windows driver by running **Step 1: Install HD PVR 2 Drivers** from the Installation CD. Power cycle the HD PVR 2 and reboot your PC after reinstalling the drivers.

Step 2: Check your cables. Try removing each cable and make sure it is firmly reseated into each device you are using. If using an Xbox, try swapping the HDMI cable (you might have a bad cable).

Step 3: Check the Video input setting. If the Video input setting is wrong, you will get a black preview window. Set **Video input** to **HDMI** for the Xbox and **Component video** for a PS3. Is the yellow light on on the front of HD PVR 2? If the yellow light is not on, then either you have the wrong Video input source set or your game console is not turned on.

Step 4: On the PS3, disconnect the HDMI cable between your game console and your TV set. Having HDMI connected at the same time as Component video will shut off Component Video and you will not see video in ShowBiz.

Step 5: If you have confirmed your video source is on, the Video input is correctly set and the yellow light is on the front of HD PVR 2, if you still see a black preview window in ShowBiz, try capturing some video in the Capture module. If you can successfully playback a recording but you cannot see live video in the Preview window, there might be a video rendering problem (video card drivers,

hardware acceleration...) Check device settings for video decoder details. To enable hardware acceleration, select "hardware acceleration" in ShowBiz Capture.

If capture fails, it is likely something is wrong with the video input to HD PVR 2. This could be a broken or loose video cable or you plugged the cables into the wrong connector on HD PVR 2.

Pass through video problems

No video on my TV set or I see flashing or distorted video on my TV set:

Open ShowBiz and verify the correct **Video input** is selected. **Video and audio input must be set initially for passthrough to work** (if you power cycle the HD PVR 2, it may revert to its default setting and will need to be set again). Also, check the video mode on your PS3 or Xbox 360.

No video on my TV set but I can see video in ShowBiz Capture

Check that the HDMI cable from the HD PVR 2 (HDMI out) is connected to your TV monitor and the TV is set to the correct HDMI port if multiple are available on yourTV.

Try changing the output resolution from your game console. Some TV monitors may not support all HDMI output resolutions.

I do not get video on either preview or pass-through

1. If using HDMI, verify your source device does not use HDCP copy protection (the PS3 uses HDCP on HDMI). If this is the case use the component video input.
2. If you are using a PS3, make sure your HDMI cable is **not plugged in**. If it was plugged in, you need to reset your PS3.

Reset the PS3: Turn the PS3 off via the power button on the front of the unit. Then, PUSH and HOLD the power button on the front of the PS3. Once you hear the second beep, release the power button on the front of the PS3. Your PS3 video will be reset.

Reset the Xbox: Remove any games from the optical drive. Turn the Xbox 360 off. Turn the Xbox back on via the controller. As the console starts, press and hold the Y button, and then pull the right trigger at the same time. Your Xbox video will be reset.